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Clostridium spp.; Sporulation; Oncolysis; Nitroreductase (Minton, N.P. (17) 357)

Escherichia coli
Phage λ; P_L promoter; Integration host factor; Temperature response (Giladi, H. (17) 135)

ΦX174 lysis protein E; Integration; Conformational change of membrane protein (Schön, P. (17) 207)

Bacteriocin release protein; Gram-negative bacteria; Heterologous protein release; Stable signal peptide; Biotechnology (Van der Wal, F.J. (17) 381)

Eukaryotic replication
Replication complex assembly; Regulation of initiation of replication; λO and DnaA initiators; Transcriptional activation of origin; Switch from θ to σ replication mode (Taylor, K. (17) 109)

Filamentous bacteriophage
Phage display; Peptide epitope; Structural mimicry; HIVgp120; Vaccine design (Perham, R.N. (17) 25)

Filamentous phage M13
Gene V protein; Single-stranded DNA binding protein; Superhelical gene V protein–single stranded DNA complex; Simulated annealing; Restrained molecular dynamics (Konings, R.N.H. (17) 57)

FKBP
φX174; Bacterial lysis; Metal-binding protein (Roof, W.D. (17) 213)

Functional mRNA half-life
mRNA inactivation; mRNA degradation; Ribosome binding site; Shine-Dalgarno sequence; *regA* (Sanson, B. (17) 141)

ΦX174 lysis protein E
Integration; *Escherichia coli*; Conformational change of membrane protein (Schön, P. (17) 207)

Gene expression
Clostridium; Differentiation; Sigma factor; Sporulation; Transcriptional regulation (Sauer, U. (17) 331)

Gene regulation
Clostridium acetobutylicum; Glutamine synthetase; *ccpA* gene; *adh1* gene; *β-hbd* gene (Woods, D.R. (17) 299)

Heat shock; *Clostridium acetobutylicum*; Stress (Bahl, H. (17) 341)

Gene transfer
Clostridium acetobutylicum; *Clostridium beijerinckii*; Physical map; Solventogenesis; Sporulation; *spo0A* (Wilkinson, S.R. (17) 275)

Gene V protein
Single-stranded DNA binding protein; Filamentous phage M13; Superhelical gene V protein–single stranded DNA complex; Simulated annealing; Restrained molecular dynamics (Konings, R.N.H. (17) 57)

Glutamine synthetase
Gene regulation; *Clostridium acetobutylicum*; *ccpA* gene; *adh1* gene; *β-hbd* gene (Woods, D.R. (17) 299)

Gram-negative bacteria
Bacteriocin release protein; *Escherichia coli*; Heterologous protein release; Stable signal peptide; Biotechnology (Van der Wal, F.J. (17) 381)

GroEL chaperone machine
DnaK chaperone machine; Heat shock response; Bacteriophage λ; Bacteriophage T4 gp31 co-chaperonin; Regulation response of heat shock (Polissi, A. (17) 159)

Heat shock
Gene regulation; *Clostridium acetobutylicum*; Stress (Bahl, H. (17) 341)

Heat shock response
GroEL chaperone machine; DnaK chaperone machine; Bacteriophage λ; Bacteriophage T4 gp31 co-chaperonin; Regulation response of heat shock (Polissi, A. (17) 159)

Heterologous protein release
Bacteriocin release protein; *Escherichia coli*; Gram-negative bacteria; Stable signal peptide; Biotechnology (Van der Wal, F.J. (17) 381)

HIVgp120
Filamentous bacteriophage; Phage display; Peptide epitope; Structural mimicry; Vaccine design (Perham, R.N. (17) 25)

Holin
Bacteriophage lysis; Endolysin (Young, R. (17) 191)

Hydrogenase
Clostridium acetobutylicum; Metabolic shift; Alcohol formation; NADH (Girbal, L. (17) 287)

Induction
Clostridia; Carbohydrate transport; Metabolism; Catabolite repression (Mitchell, W.J. (17) 317)

Integration
ΦX174 lysis protein E; *Escherichia coli*; Conformational change of membrane protein (Schön, P. (17) 207)

Integration host factor
Escherichia coli; Phage λ; P_L promoter; Temperature response (Giladi, H. (17) 135)

Iron–sulfur protein
Thiobacillus ferrooxidans; Chemolithotroph; Electron transfer system; Oxidation of ferrous iron; Cytochromes; Rusticyanin (Yamanaka, T. (17) 401)

Jean Weigle
Phage and the origin of molecular biology; Max Delbrück; Premature discoveries; New, non-chemical concepts for DNA; Phage and the possibility of precise experimentation (Kellenberger, E. (17) 7)

Leaderless mRNA
Translation initiation; Ribosomal protein S1 (Resch, A. (17) 151)

Max Delbrück
Phage and the origin of molecular biology; Jean Weigle; Premature discoveries; New, non-chemical concepts for DNA; Phage and the possibility of precise experimentation (Kellenberger, E. (17) 7)

Mechanisms of degeneration
Strain degeneration; *Clostridium acetobutylicum*; *Clostridium beijerinckii*; Degeneration resistance; Mutants; Solventogenesis; Sporulation; Culture pH; Transposon Tn*1545*; Saccharolytic clostridia (Kashket, E.R. (17) 307)

Membrane insertion mechanism
Bacteriophage coat protein; Sec translocase (Kuhn, A. (17) 185)

Metabolic shift
Clostridium acetobutylicum; Alcohol formation; Hydrogenase; NADH (Girbal, L. (17) 287)

Metabolism
Clostridia; Carbohydrate transport; Induction; Catabolite repression (Mitchell, W.J. (17) 317)

Metal-binding protein
ϕX174; Bacterial lysis; FKBP (Roof, W.D. (17) 213)

Mutants
Strain degeneration; *Clostridium acetobutylicum*; *Clostridium beijerinckii*; Degeneration resistance; Solventogenesis; Sporulation; Mechanisms of degeneration; Culture pH; Transposon Tn*1545*; Saccharolytic clostridia (Kashket, E.R. (17) 307)

NADH
Clostridium acetobutylicum; Metabolic shift; Alcohol formation; Hydrogenase (Girbal, L. (17) 287)

New, non-chemical concepts for DNA
Phage and the origin of molecular biology; Max Delbrück; Jean Weigle; Premature discoveries; Phage and the possibility of precise experimentation (Kellenberger, E. (17) 7)

Nitroreductase
Clostridium spp.; Sporulation; Oncolysis; Enzyme prodrug therapy (Minton, N.P. (17) 357)

Nucleoprotein complex
DNA polymerase; Phage ϕ29; Protein-primed replication; SSB protein; Terminal protein (Salas, M. (17) 73)

λO and DnaA initiators
Replication complex assembly; Regulation of initiation of replication; Transcriptional activation of origin; Eukaryotic replication; Switch from θ to σ replication mode (Taylor, K. (17) 109)

Oncolysis
Clostridium spp.; Sporulation; Enzyme prodrug therapy; Nitroreductase (Minton, N.P. (17) 357)

Origin binding protein
P4 gpα; DNA replication initiation; DNA helicase; DNA primase (Ziegelin, G. (17) 99)

Oxidation of ferrous iron
Thiobacillus ferrooxidans; Chemolithotroph; Electron transfer system; Cytochromes; Iron–sulfur protein; Rusticyanin (Yamanaka, T. (17) 401)

Peptide
Phage P4; Phage display; C-myc (Lindqvist, B.H. (17) 33)

Peptide epitope
Filamentous bacteriophage; Phage display; Structural mimicry; HIVgp120; Vaccine design (Perham, R.N. (17) 25)

Periodontitis
Actinobacillus actinomycetemcomitans; Virulence factors (Wilson, M. (17) 365)

P4 gpα
DNA replication initiation; Origin binding protein; DNA helicase; DNA primase (Ziegelin, G. (17) 99)

Phage and the origin of molecular biology
Max Delbrück; Jean Weigle; Premature discoveries; New, non-chemical concepts for DNA; Phage and the possibility of precise experimentation (Kellenberger, E. (17) 7)

Phage and the possibility of precise experimentation
Phage and the origin of molecular biology; Max Delbrück; Jean Weigle; Premature discoveries; New, non-chemical concepts for DNA (Kellenberger, E. (17) 7)

Phage display
Filamentous bacteriophage; Peptide epitope; Structural mimicry; HIVgp120; Vaccine design (Perham, R.N. (17) 25)

Phage P4; Peptide; C-myc (Lindqvist, B.H. (17) 33)

Phage ϕ29
DNA polymerase; Nucleoprotein complex; Protein-primed replication; SSB protein; Terminal protein (Salas, M. (17) 73)

Phage λ
Escherichia coli; P_L promoter; Integration host factor; Temperature response (Giladi, H. (17) 135)

Phagemid
Clostridium acetobutylicum; *Clostridium beijerinckii*; Butanol; Cellulase (Blaschek, H.P. (17) 349)

Phage P4
Phage display; Peptide; C-myc (Lindqvist, B.H. (17) 33)

Phylogeny
Acetone production; Butanol production; *Clostridium acetobutylicum*; *Clostridium beijerinckii*; Taxonomy (Jones, D.T. (17) 223)

Physical map
Clostridium acetobutylicum; *Clostridium beijerinckii*; Solventogenesis; Sporulation; *spo0A*; Gene transfer (Wilkinson, S.R. (17) 275)

Portal protein
Bacillus subtilis; Bacteriophage SPP1; DNA packaging; Connector; Chromosome sizing (Tavares, P. (17) 47)

P_L promoter
Escherichia coli; Phage λ; Integration host factor; Temperature response (Giladi, H. (17) 135)

Precise excision
Bacteriophage Mu; Transposition (Ghelardini, P. (17) 171)

Premature discoveries
Phage and the origin of molecular biology; Max Delbrück; Jean Weigle; New, non-chemical concepts for DNA; Phage and the possibility of precise experimentation (Kellenberger, E. (17) 7)

Primary–secondary alcohol dehydrogenase
Alcohol dehydrogenase; Butanol dehydrogenase; Alcohol–aldehyde dehydrogenase; *Clostridium acetobutylicum*; *Clostridium beijerinckii* (Chen, J.-S. (17) 263)

Prophage immunity
Transcription termination; Antisense RNA; RNA–RNA interactions; Control of DNA replication (Ghisotti, D. (17) 127)

Protein cross-linking
Bacteriophage HK97; Capsid assembly; Assembly pathway (Duda, R.L. (17) 41)

Protein-primed replication
DNA polymerase; Nucleoprotein complex; Phage ϕ29; SSB protein; Terminal protein (Salas, M. (17) 73)

Recombination
DNA virus; DNA replication; RNA primer; Transcription termination; RNA folding (Mosig, G. (17) 83)

Regulation
Clostridium acetobutylicum; Acetone; Butanol; Solventogenic enzymes (Dürre, P. (17) 251)

Regulation of initiation of replication
Replication complex assembly; λO and DnaA initiators; Transcriptional activation of origin; Eukaryotic replication; Switch from θ to σ replication mode (Taylor, K. (17) 109)

Regulation response of heat shock
GroEL chaperone machine; DnaK chaperone machine; Heat shock response; Bacteriophage λ; Bacteriophage T4 gp31 co-chaperonin (Polissi, A. (17) 159)

Replication complex assembly
Regulation of initiation of replication; λO and DnaA initiators; Transcriptional activation of origin; Eukaryotic replication; Switch from θ to σ replication mode (Taylor, K. (17) 109)

Repressor
Auxiliary repressor; Repressor inactivator protein; Antisense RNA (Heinrich, J. (17) 121)

Repressor inactivator protein
Repressor; Auxiliary repressor; Antisense RNA (Heinrich, J. (17) 121)

Restrained molecular dynamics
Gene V protein; Single-stranded DNA binding protein; Filamentous phage M13; Superhelical gene V protein–single stranded DNA complex; Simulated annealing (Konings, R.N.H. (17) 57)

Restriction endonuclease *Eco*P15
DNA methylation detection; DNA restriction avoidance; DNA strand bias; Restriction endonuclease *Eco*RII (Krüger, D.H. (17) 177)

Restriction endonuclease *Eco*RII
DNA methylation detection; DNA restriction avoidance; DNA strand bias; Restriction endonuclease *Eco*P15 (Krüger, D.H. (17) 177)

Ribosomal protein S1
Leaderless mRNA; Translation initiation (Resch, A. (17) 151)

Ribosome binding site
mRNA inactivation; mRNA degradation; Shine-Dalgarno sequence; *regA*; Functional mRNA half-life (Sanson, B. (17) 141)

mRNA degradation
mRNA inactivation; Ribosome binding site; Shine-Dalgarno sequence; *regA*; Functional mRNA half-life (Sanson, B. (17) 141)

RNA folding
DNA virus; DNA replication; Recombination; RNA primer; Transcription termination (Mosig, G. (17) 83)

mRNA inactivation
mRNA degradation; Ribosome binding site; Shine-Dalgarno sequence; *regA*; Functional mRNA half-life (Sanson, B. (17) 141)

RNA primer
DNA virus; DNA replication; Recombination; Transcription termination; RNA folding (Mosig, G. (17) 83)

RNA–RNA interactions
Transcription termination; Antisense RNA; Control of DNA replication; Prophage immunity (Ghisotti, D. (17) 127)

Rusticyanin
Thiobacillus ferrooxidans; Chemolithotroph; Electron transfer system; Oxidation of ferrous iron; Cytochromes; Iron–sulfur protein (Yamanaka, T. (17) 401)

Saccharolytic clostridia
Strain degeneration; *Clostridium acetobutylicum*; *Clostridium beijerinckii*; Degeneration resistance; Mutants; Solventogenesis; Sporulation; Mechanisms of degeneration; Culture pH; Transposon Tn*1545* (Kashket, E.R. (17) 307)

Sec translocase
Bacteriophage coat protein; Membrane insertion mechanism (Kuhn, A. (17) 185)

Shine-Dalgarno sequence
mRNA inactivation; mRNA degradation; Ribosome binding site; *regA*; Functional mRNA half-life (Sanson, B. (17) 141)

Sigma factor
Clostridium; Differentiation; Gene expression; Sporulation; Transcriptional regulation (Sauer, U. (17) 331)

Simulated annealing
Gene V protein; Single-stranded DNA binding protein; Filamentous phage M13; Superhelical gene V protein–single stranded DNA complex; Restrained molecular dynamics (Konings, R.N.H. (17) 57)

Single-stranded DNA binding protein
Gene V protein; Filamentous phage M13; Superhelical gene V protein–single stranded DNA complex; Simulated annealing; Restrained molecular dynamics (Konings, R.N.H. (17) 57)

Solventogenesis
Clostridium acetobutylicum; *Clostridium beijerinckii*; Physical map; Sporulation; *spo0A*; Gene transfer (Wilkinson, S.R. (17) 275)

Strain degeneration; *Clostridium acetobutylicum*; *Clostridium beijerinckii*; Degeneration resistance; Mutants; Sporulation; Mechanisms of degeneration; Culture pH; Transposon Tn*1545*; Saccharolytic clostridia (Kashket, E.R. (17) 307)

Solventogenic enzymes
Clostridium acetobutylicum; Acetone; Butanol; Regulation (Dürre, P. (17) 251)

Sporulation
Clostridium acetobutylicum; *Clostridium beijerinckii*; Physical map; Solventogenesis; *spo0A*; Gene transfer (Wilkinson, S.R. (17) 275)

Strain degeneration; *Clostridium acetobutylicum*; *Clostridium beijerinckii*; Degeneration resistance; Mutants; Solventogenesis; Mechanisms of degeneration; Culture pH; Transposon Tn*1545*; Saccharolytic clostridia (Kashket, E.R. (17) 307)

Clostridium; Differentiation; Gene expression; Sigma factor; Transcriptional regulation (Sauer, U. (17) 331)

Clostridium spp.; Oncolysis; Enzyme prodrug therapy; Nitroreductase (Minton, N.P. (17) 357)

SSB protein
DNA polymerase; Nucleoprotein complex; Phage ϕ29; Protein-primed replication; Terminal protein (Salas, M. (17) 73)

Stable signal peptide
Bacteriocin release protein; *Escherichia coli*; Gram-negative bacteria; Heterologous protein release; Biotechnology (Van der Wal, F.J. (17) 381)

Strain degeneration
Clostridium acetobutylicum; *Clostridium beijerinckii*; Degeneration resistance; Mutants; Solventogenesis; Sporulation; Mechanisms of degeneration; Culture pH; Transposon Tn*1545*; Saccharolytic clostridia (Kashket, E.R. (17) 307)

Stress
Heat shock; Gene regulation; *Clostridium acetobutylicum* (Bahl, H. (17) 341)

Structural mimicry
Filamentous bacteriophage; Phage display; Peptide epitope; HIVgp120; Vaccine design (Perham, R.N. (17) 25)

Superhelical gene V protein–single stranded DNA complex
Gene V protein; Single-stranded DNA binding protein; Filamentous phage M13; Simulated annealing; Restrained molecular dynamics (Konings, R.N.H. (17) 57)

Switch from θ to σ replication mode
Replication complex assembly; Regulation of initiation of replication; λO and DnaA initiators; Transcriptional activation of origin; Eukaryotic replication (Taylor, K. (17) 109)

Taxonomy
Acetone production; Butanol production; *Clostridium acetobutylicum*; *Clostridium beijerinckii*; Phylogeny (Jones, D.T. (17) 223)

Taxonomy of solvent-producing clostridia
Clostridium acetobutylicum; *Clostridium beijerinckii*; *Clostridium saccharoperbutylacetonicum*; DNA sequence similarities (Johnson, J.L. (17) 233)

Temperature response
Escherichia coli; Phage λ; P_L promoter; Integration host factor (Giladi, H. (17) 135)

Terminal protein
DNA polymerase; Nucleoprotein complex; Phage ϕ29; Protein-primed replication; SSB protein (Salas, M. (17) 73)

Thiobacillus ferrooxidans
Chemolithotroph; Electron transfer system; Oxidation of ferrous iron; Cytochromes; Iron–sulfur protein; Rusticyanin (Yamanaka, T. (17) 401)

Thiolase
Clostridium acetobutylicum; Acetone; Butanol; Coenzyme A; Electron transfer; Crotonase; Dehydrogenase (Bennett, G.N. (17) 241)

Transcriptional activation of origin
Replication complex assembly; Regulation of initiation of replication; λO and DnaA initiators; Eukaryotic replication; Switch from θ to σ replication mode (Taylor, K. (17) 109)

Transcriptional regulation
Clostridium; Differentiation; Gene expression; Sigma factor; Sporulation (Sauer, U. (17) 331)

Transcription termination
DNA virus; DNA replication; Recombination; RNA primer; RNA folding (Mosig, G. (17) 83)

Antisense RNA; RNA–RNA interactions; Control of DNA replication; Prophage immunity (Ghisotti, D. (17) 127)

Translation initiation
Leaderless mRNA; Ribosomal protein S1 (Resch, A. (17) 151)

Transposition
Bacteriophage Mu; Precise excision (Ghelardini, P. (17) 171)

Transposon Tn*1545*
Strain degeneration; *Clostridium acetobutylicum*; *Clostridium beijerinckii*; Degeneration resistance; Mutants; Solventogenesis; Sporulation; Mechanisms of degeneration; Culture pH; Saccharolytic clostridia (Kashket, E.R. (17) 307)

Vaccine design
Filamentous bacteriophage; Phage display; Peptide epitope; Structural mimicry; HIVgp120 (Perham, R.N. (17) 25)

Virulence factors
Actinobacillus actinomycetemcomitans; Periodontitis (Wilson, M. (17) 365)

ϕX174
Bacterial lysis; FKBP; Metal-binding protein (Roof, W.D. (17) 213)